

Figure 1. The structure of the proposed model. The model is composed of three main parts: the input layer, the hidden layer, and the output layer. The input layer consists of 10 nodes, the hidden layer consists of 10 nodes, and the output layer consists of 10 nodes. The model is trained using a genetic algorithm (GA) to optimize the weights and biases of the network. The GA is applied to the hidden layer weights and biases, while the input and output layer weights and biases are fixed. The model is evaluated using a set of test data, and the performance is measured using the mean squared error (MSE) and the coefficient of determination (R-squared).

where the sequence of the search inquiry among the individual inventories may be made to depend on additional conditions which may be stipulated by the dealer and/or the device, and a product that has been located can be acquired for the dealer and transferred to his allocation.